Amendments to the Claims

Please amend the claims as indicated below. Claims 1-2, 4, 6, 10-11, and 16 are amended. Claims 17-38 are new.

Listing of Claims:

Claim 1 (currently amended) A method <u>of delivering packets over a link</u> comprising the step of:

transmitting at least one packet over said link via a first layer of a protocol stack employed by said link;

repeating said transmitting step until said transmitting step fails;

determining a first-quality of a-said link at said between an electronic device and a node by examining quality-of-service (QoS) information inherently available within a second layer a first layer of a-said protocol stack; said second layer being used to implement said link that is a different from a second layer of in said protocol stack than said first layer; that is used to deliver said packets

developing a retry strategy for said transmitting step based on said determined quality; and,

retransmitting said at least one packet according to said retry strategy.

Claim 2 (currently amended) The method of claim 1 further-comprising the steps of:

resuming said method at said transmitting step using said retry strategy if said re-transmitting step succeeds; and,

terminating said method if said re-transmitting step fails.

-adjusting the delivery of said packets according to said determined quality.

Claim 3 (previously presented) The method of claim 1 wherein said first layer is layer four of the OSI model and said second layer is layer two of the OSI model.

Claim 4 (currently amended) The method of claim 1 further comprising the step of:

determining a second quality of a second link between from said electronic device and a second node by examining a third layer of a second protocol stack used to implement said second link that is different from a fourth layer of said second protocol stack that is used to deliver said packets.

Claim 5 (previously presented) The method of claim 4 wherein at least one of said first quality and second quality is based on at least one of the measurements of reachability and availability of a given service used for delivery of said packets.

Claim 6 (currently amended) The method of claim 6-5 wherein said service includes Voice over IP.

Claim 7 (previously presented) The method of claim 4 further comprising the step of delivering said packets over the one of said two links based on a determination of which link has a more desirable quality.

Claim 8 (previously presented) The method of claim 7 wherein said determination is based, at least in part, on which link has the least financial cost for carrying said packets.

Claim 9 (previously presented) The method of claim 7 wherein said determination is based, at least in part, on whether a change from one of said links to the other of said links will be transparent to the performance of a given service being used for delivery of said packets.

Claim 10 (currently amended) An electronic device operable to communicate with at least one node via a link comprising:

a transmitter configured to transmit at least one packet over said link via, said device operable to determine a quality of said link by examining a first layer of a protocol stack used to implement said link; said transmitter configured to repeatedly transmit said at least one packet until said transmitter fails to effect said transmission;

a computing processor —connected to said transmitter configured to determine a quality of said link by examining quality of service (QoS) information inherently available over a second layer of said protocol stack; said second layer that is being a different from a second layer of in said protocol stack than said first layer that is used to deliver said packets—; said computing processor further configured to develop a retry strategy for transmitting based on said determined quality.

Claim 11 (currently amended) The device of claim 10 wherein said device is further operable to resume transmission to adjust the delivery of said packets according to said determined qualityretry strategy if transmission of said at

least one of said packets success and further operable to terminate transmission of packets if retransmission of said at least one of said packets fails.

Claim 12 (previously presented) The device of claim 10 wherein said first layer is layer four of the OSI model and said second layer is layer two of the OSI model.

Claim 13 (previously presented) The device of claim 10 wherein said device is further operable to determining a quality of a second link between said electronic device and a second node by examining a third layer of a second protocol stack used to implement said second link that is different from a fourth layer of said second protocol stack that is used to deliver said packets.

Claim 14 (previously presented) The device of claim 13 wherein said device is further operable to deliver said packets over the one of said two links based on a determination of which link has a more desirable quality.

Claim 15 (previously presented) The device of claim 14 wherein said determination is based, at least in part, on which link has the least financial cost for carrying said packets.

Claim 16 (currently amended) A computer-readable storage medium containing a set of instructions for an electronic device comprising the step of:

transmitting at least one packet over said link via a first layer of a protocol stack employed by said link;

repeating said transmitting step until said transmitting step fails;

determining a first-quality of a-said link at said between an electronic device and a node by examining quality-of-service (QoS) information inherently available within a second layer a first layer of a said protocol stack; said second layer being used to implement said link that is a different from a second layer of in said protocol stack than said first layer; that is used to deliver said packets

developing a retry strategy for said transmitting step based on said determined quality; and,

retransmitting said at least one packet according to said retry strategy.

Claim 17 (new) The method of claim 1 wherein said second layer is lower in said protocol stack than said first layer.

Claim 18 (new) The method of claim 1 wherein said packets are Transport Control Protocol (TCP) packets.

Claim 19 (new) The method of claim 1, wherein said link is a wireless link.

Claim 20 (new) The method of claim 19, wherein said packets are transmitted over said wireless link (42) employing the General Packet Radio Service (GPRS) wireless packet data transmission standard.

Claim 21 (new) The method of claim 1, wherein said transmitting step fails when said device fails to receive a "not acknowledge" signal.

Claim 22 (new) The method of claim 18, wherein said transmitting step fails when said device does not receive a response to an information request transmitted within said TCP packet.

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Claim 23 (new) The method of claim 1 wherein the service used for delivery

of said packets comprises a traditional PSTN type of telephone call, through

the use of appropriate PSTN gateways.

Claim 24 (new) The method of claim 1 wherein said determined quality is a

transmission profile.

Claim 25 (new) The method of claim 24, wherein said transmission profile is a

record of successful transmissions from said device or of signal strengths for a

previous time period.

Claim 26 (new) The method of claim 25, wherein said previous time period is

10 seconds.

Claim 27 (new) The method of claim 1, comprising delivering packets over at

least one of two links connected to the electronic device, comprising the

steps of:

determining a quality of all of said links by examining QoS information

inherently available over the second layer of said protocol stack, said

second layer being employed by all of said links;

developing a retry strategy for each of said links for use in transmitting

said packets based on said determined qualities,

selecting one of said links based on which of said retry strategies results

in a desired successful transmission;

re-transmitting said at least one packet according to said retry strategy

of said selected one of said links:

resuming said method at said transmitting step over said selected one of said links using said retry strategy if said re-transmitting step succeeds; and

terminating said method if said re-transmitting steps fails.

Claim 28 (new) The device of claim 10 wherein said packets are Transport Control Protocol (TCP) packets.

Claim 29 (new) The device of claim 10 wherein said link is a wireless link.

Claim 30 (new) The device of claim 29, wherein said packets are transmitted over said wireless link employing the General Packet Radio Service (GPRS) wireless packet data transmission standard.

Claim 31 (new) The device of claim 28 wherein said transmitter identifies a packet transmission failure when said device fails to receive a "not acknowledge" signal.

Claim 32 (new) The device of claim 28 wherein said transmitter identifies a packet transmission failure when said device does not receive a response to an information request transmitted within said TCP packet.

Claim 33 (new) The device of claim 28 wherein the service used for delivery of said packets comprises a traditional PSTN type of telephone call, through the use of PSTN gateways.

Claim 34 (new) The device of claim 28 wherein said computer processor develops said retry strategy based on the determined quality of the link in order to develop the strategy as a transmission profile.

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Claim 35 (new) The device of claim 34, wherein said transmission profile is a record of successful transmissions from said device or of signal strengths for a previous time period.

Claim 36 (new) The device of claim 35 wherein said previous time period is 10 seconds.

Claim 37 (new) The device of claim 36 wherein said computer processor is configured to develop said retry strategy as a mirror of said transmission profile.

Claim 38 (new) The device of claim 37 wherein said transmitter is configured to deliver packets over at least one of two links from said electronic device and said computer processor is further configured to determining a quality of all of said links by examining QoS information inherently available over the second layer of said protocol stack, said second layer being employed by all of said links; said computer processor further configured to develop a retry strategy for each of said links for use in transmitting said packets based on said determined qualities; said computer processor further configured to select one of said links based on which of said retry strategies results in a desired successful transmission; said transmitter configured to re-transmit said at least one packet according to said retry strategy of said selected one of said links; said computer processor and said transmitter configured to resume said transmitting over said selected one of said links using said retry strategy if said re-transmitting succeeds; and said computer processor and said transmitter further configured to terminate transmitting if said retransmitting fails.